

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A composition for stimulating bone-formation and bone-consolidation comprising
a water-soluble chitosan, a tripolyphosphate, and Big-h3 protein,
wherein a mixed ratio of the tripolyphosphate to the water-soluble chitosan is 20:80 ~ 80:20 weight %, and wherein the Big-h3 protein is contained in the water-soluble chitosan at a concentration of $100\text{ }\mu\text{g/ml} \sim 1\text{ mg/ml}$ $300\text{ }\mu\text{g/ml} \sim 600\text{ }\mu\text{g/ml}$.
- 2-4. (Cancelled).
5. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1, wherein the ratio of the tripolyphosphate to the water-soluble chitosan is 50:50 weight %.
- 6-10. (Cancelled).
11. (Currently Amended) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1, wherein the Big-h3 protein is added at the concentration of $450\text{ }\mu\text{g/ml}$.
12. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 1, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.
13. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 5, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.

14. (Cancelled)

15. (Previously Presented) The composition for stimulating bone-formation and bone-consolidation as set forth in claim 11, wherein the water-soluble chitosan is 5% water-soluble chitosan, and the tripolyphosphate is 5% tripolyphosphate.

16. (Currently Amended) A method for stimulating bone-formation and bone-consolidation of a subject, comprising:

simultaneously injecting water-soluble chitosan solution containing Big-h3 protein and tripolyphosphate solution in an effective amount to stimulate bone-formation and bone-consolidation into the same target spot of the subject using a dual syringe to induce immediate hardening of the water-soluble chitosan solution by mixing the water-soluble chitosan solution and the tripolyphosphate solution, wherein a mixed ratio of the tripolyphosphate solution to the water-soluble chitosan solution is 20:80 ~ 80:20 weight %, and wherein the concentration of the Big-h3 protein in the water-soluble chitosan solution is ~~100 µg/ml ~ 1 mg/ml~~ 300 µg/ml ~ 600 µg/ml.

17. (Cancelled)

18. (Currently Amended) The method for stimulating bone-formation and bone-consolidation as set forth in claim 16 ~~17~~, wherein the concentration of the Big-h3 protein is 450 µg/ml.